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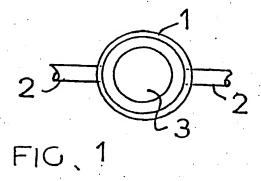
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Best Available Cor.

(54) Fire seals.

A fire seal for use with electrical conduits and fittings therefor comprises a sheet or layer of intumescent material applied to one or more internal surfaces of the fittings or channels through which electrical cables pass. The intumescent material may take the form of a pad or gasket (3,6) typically of between 1.5 and 5.0mm thickness and may be secured to one or more internal walls of the fittings or channels by PVC faced adhesive tape. Preferably, the intumescent material includes a high proportion of graphite to prevent electrical shorting should one or more conducting wires of the cable become exposed.



the true scope f the invention.

Claims

- 1. A fire seal for use with electrical conduits and fittings therefor, which seal comprises a sheet or layer of intumescent material applied to one or more internal surfaces of the fittings or channels through which electrical cables pass.
- 2. A fire seal as claimed in Claim 1 wherein the intumescent material takes the form of a pad or gasket of between 1.5 and 5.0mm thickness.
- 3. A fire seal as claimed in Claim 2 wherein the pad or gasket is between 1.8 and 4.0mm thickness.
- 4. A fire seal as claimed in Claim 3 wherein the pad or gasket is secured to one or more internal walls of the fittings or channels by means of an adhesive layer, for example adhesive tape such as PVC faced adhesive tape.
- 5. A fire seal as claimed in any one of Claims 1 to 4 wherein the intumescent material includes a high proportion of graphite.
- 6. A fire seal comprising a graphite-based intumescent pad or gasket positioned within the interior of a conduit for electrical cabling.
- 7. A fire seal as claimed in Claim 6 wherein the intumescent pad comprises a backing sheet of vermiculite and graphite fibres coated on one or both sides with an intumescent paint or varnish, the intumescent paint or varnish impregnating itself into the fibrous structure of the backing sheet to define a surface which expands in the presence of fire.
- 8. A fire seal as claimed in Claim 6 wherein the intumescent pad comprises a backing sheet produced from ceramic fibres coated on one side with layers of vermiculite granules and intumescent paint or varnish, the intumescent material impregnating into the porous structure of the backing sheet.
- 9. A conduit fitting for electrical cabling, at least one internal surface of the conduit of which is coated with a layer of intumescent material having a thickness which lies within the range 1.5 to 5.0mm.
- 10. A fitting as claimed in Claim 9 in which the intumescent material is of a preferred thickness of between 1.8 to 4.0mm.

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EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT				EP 91308415.8	
tegory	Citation of document with indication, where appropriate, to claim of relevant passages		APPLICATION (Int. CL5)		
x	GB - A - 2 181 093 (MARN MC GOWAN FABRICATIONS		1-3, 5-7	H 02 G 3/22	
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